

# CHARLOTTE COUNTY UTILITIES LANDSCAPING DETAILS

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DATE: March 21, 2011	<b>LANDSCAPE DETAILS COVER SHEET</b>	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KKB, PTM		PAGE No. 1 of 7
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<b>CHARLOTTE COUNTY UTILITIES</b>		

Contractor shall provide landscaping for utility sites within Charlotte County in accordance with Charlotte County Ordinance 2009-17 and CCU approved Landscaping Materials as shown below and on the CCU Standard Details.

Landscaping Project Information	
Project Name	
CCU Project Number	
Contractor	
Parcel Location	
Parcel ID	

	Segment - 1		Segment - 2		Segment - 3		Segment - 4		Segment - 5	
Length of each segment										
Landscape choices	Description	Qty.								
Canopy trees										
Understory/Accent trees										
Shrubs										

**NOTES:**

1. Provide project information for utility site, including layout, equipment or fence area, site boundary and existing overhead and underground utilities.

2. Indicate the proposed length of equipment boundary and buffer length specific to this project. Buffer length is defined by the facility security fence line (or equipment area boundary if the facility is underground). Each segment shall be measured separately. The minimum buffer width shall be seven (7) feet measured from the equipment boundary.

3. List the quantity and provide a description of the required canopy trees. There shall be a minimum of three (3) canopy trees provided per 100 linear feet for each segment of fence or equipment area boundary segment. There shall be a minimum of one canopy trees to be located on each side of a driveway and on each side of the equipment area. Each side of a centrally located driveway shall be considered a segment. No trees shall be located within 10 feet of overhead power lines except: Crepe Myrtle (*Lagerstroemia indica*).

4. List the quantity and provide a description of the required accent/understory trees. There shall be a minimum of two (2) accent/understory trees provided per 100 linear feet for each segment of fence or equipment area boundary segment. Provide no less than one on each side of a driveway and one on each side of the equipment area.

5. List the quantity and provide a description of the required shrubs. There shall be a minimum of ten (10) shrubs provided per 100 linear feet of fence line for each segment of fence or equipment area boundary segment. Provide no less than two (2) shrubs on each side of a driveway.

6. All plants shall have a minimum diameter as measured by a caliper of forestry diameter tape and be on the approved plant list below. Trees shall have a minimum diameter of two (2) inches measured at twelve (12) inches above the soil line, have a minimum height of eight (8) feet at installation. Palm trees shall have a minimum of six (6) feet of clear trunk and a minimum height of ten (10) feet. Shrubs shall be a minimum of eighteen (18) inches in height at time of planting, and be of the type that reaches at least forty-eight (48) inches on maturity.

CANOPY TREE

- Sabal Palm (*Sabal palmetto*)
- Southern Magnolia (*Magnolia grandiflora*)

APPROVED PLANT LIST:

ACCENT/ UNDERSTORY TREES

- Southern Red Cedar (*Juniperus silicicola*)
- Sand Live Oak (*Quercus geminata*)
- East Palatka Holly (*Ilex x attenuata* and cvs.)
- Crepe Myrtle (*Lagerstroemia indica*)

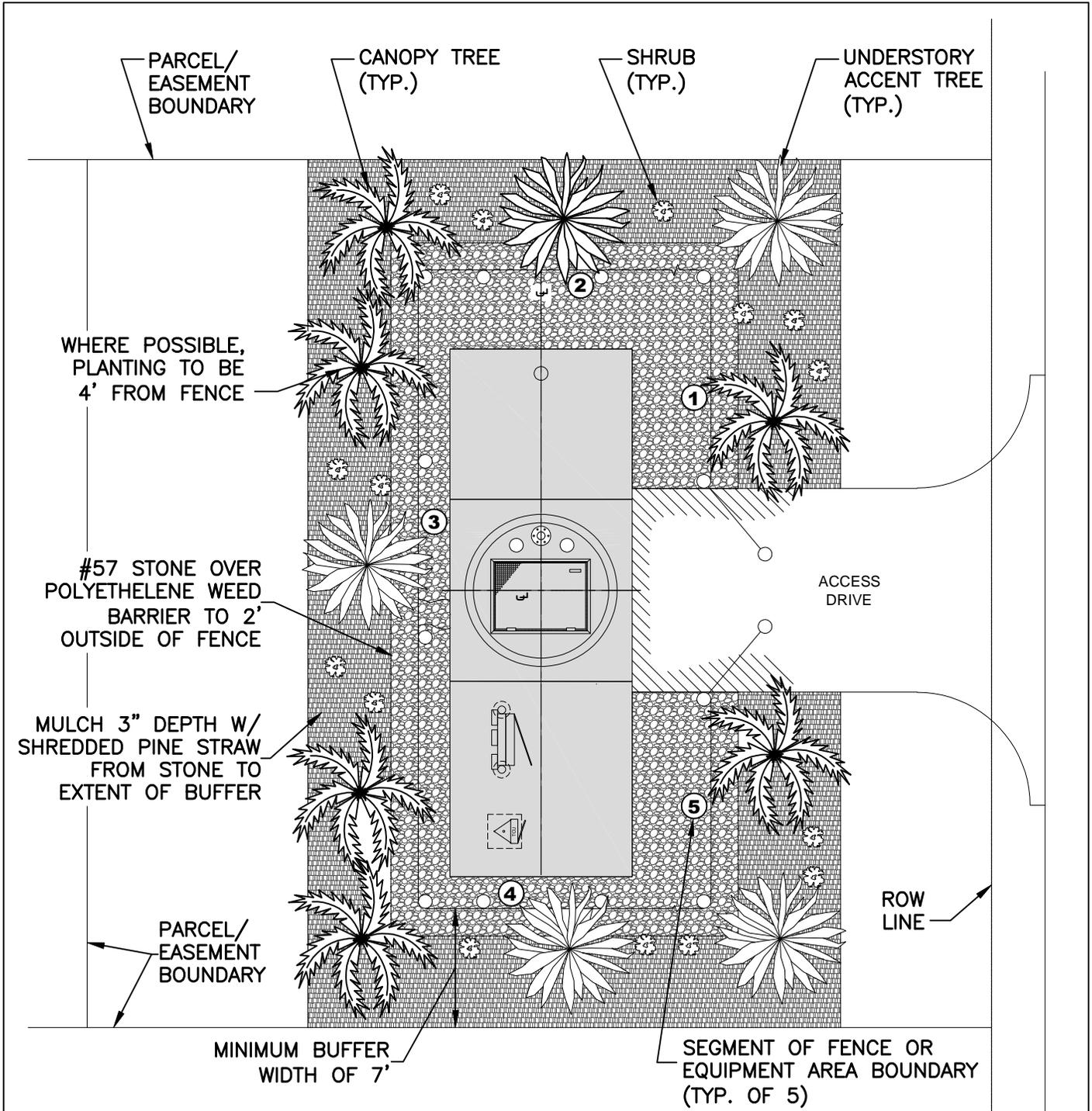
SHRUBS

- Saw Palmetto (*Serenoa repens*)
- Firebush (*Hamelia patens*)
- Indian Hawthorn (*Raphiolepis* spp.)
- Plumbago (*Plumbago auriculata* cvs.)
- Simpson's Stopper (*Myrcianthes fragrans*)
- Florida Coontie (*Zamia floridana*)
- Fakahatchee Grass (*Tripsacum dactyloides*)

Landscape Plan Approved Subject to Compliance with Charlotte County Codes, Date: 10/2/09, By: LDM

Reference: LS/09-29 #2009040220 Master Landscape Permit

DATE: March 21, 2011	<h1>SITE LANDSCAPE REQUIREMENTS</h1> <h2>CHARLOTTE COUNTY UTILITIES</h2>	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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**NOTE:**  
 LANDSCAPING ILLUSTRATED IN THIS DETAIL MEETS THE REQUIREMENTS FOR A TYPICAL UTILITY SITE. EXACT LANDSCAPING REQUIREMENTS ARE PROJECT SPECIFIC AND SHALL BE IN ACCORDANCE WITH CHARLOTTE COUNTY TYPE "A" LANDSCAPE SITE REQUIREMENTS DETAIL.

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DATE: March 21, 2011	<b>LANDSCAPE SITE PLAN BUFFER LIFT STATION SITE</b>	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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1. Perimeter Landscape Type "A" Buffer Requirements (Per Charlotte County Code Sec. 3-5-393).
2. All plant material shall be Florida Grade No. 1 or better, as specified in grades and standards for nursery plants, parts I and II, by the division of plant industry, Florida Department of Agriculture and consumer services, and shall conform to current American association of Nurseryman standards for nursery stock, unless otherwise specified on the plans and plant list.
3. Florida friendly landscaping principles shall be utilized as outlined by University of Florida / Institute of Food and Agricultural Sciences.
4. All plants shall have securely attached durable legible labels stating in weather resistant ink the correct botanical plant name.
5. All plants shall be subject to inspection by CCU during digging operations and after replanting. No plants shall be planted before inspection and approval by CCU. Any plants damaged by the Contractor's operations shall be removed from the site immediately and replaced with acceptable plants without additional compensation.
6. The Contractor shall provide warranty 90 days for sod, ground cover and shrubs, and 1 year for trees from date of Project Completion. During the warranty period the Contractor shall replace plant materials found dead or not in a healthy growing condition. Replacement plant materials shall be of same species with the warranty commencing on date of replacement.
7. The Contractor shall begin maintenance of plant materials immediately after planting and continue until termination of warranty period. Maintenance shall include measures necessary to establish and maintain plants in a vigorous and healthy growing condition, including the following:
  - A. Cultivate and weed plant beds and tree pits. When herbicides are used for weed control, apply in accordance with manufacturer's instructions. Remedy damage resulting from use of herbicides.
  - B. Water sufficient to saturate root system and keep plants in a healthy condition.
  - C. Prune, including removal of dead or broken branches, and treatment of pruning wounds.
  - D. Disease and insect control.
  - E. Maintain wrappings, guys, turnbuckles, and stakes. Adjust turnbuckles to keep guy wires tight. Repair or replace accessories when required.
8. The Contractor shall verify topsoil and if necessary prepare topsoil to receive plant materials.
9. Excavations for all plant material shall allow a minimum of 1 foot clearance around the sides of the root ball and 6 inches below the root ball to receive the backfill material.
10. Planting Soil: Topsoil mixed five (5) parts topsoil, and one (1) part peat moss. Add fertilizer as required.
11. Mulch material shall follow recommendations in Sec. 3-5-400 Florida friendly landscaping, such as shredded pine straw, 3-4" lengths, and intertwined matting effect. All pine straw shall be free from leaves, twigs, wood shavings, insects, wood or other deleterious material. Mulching material shall be applied to all plants over the entire backfilled saucer area to a depth of 3 inches. A slight saucer made of soil shall be maintained around each plant for watering. Keep mulch 3" - 6" away from all stems and trunks.
12. Cables, Wire, Eye Bolts, and Turnbuckles: Shall be non-corrosive and of sufficient strength to withstand wind pressure.

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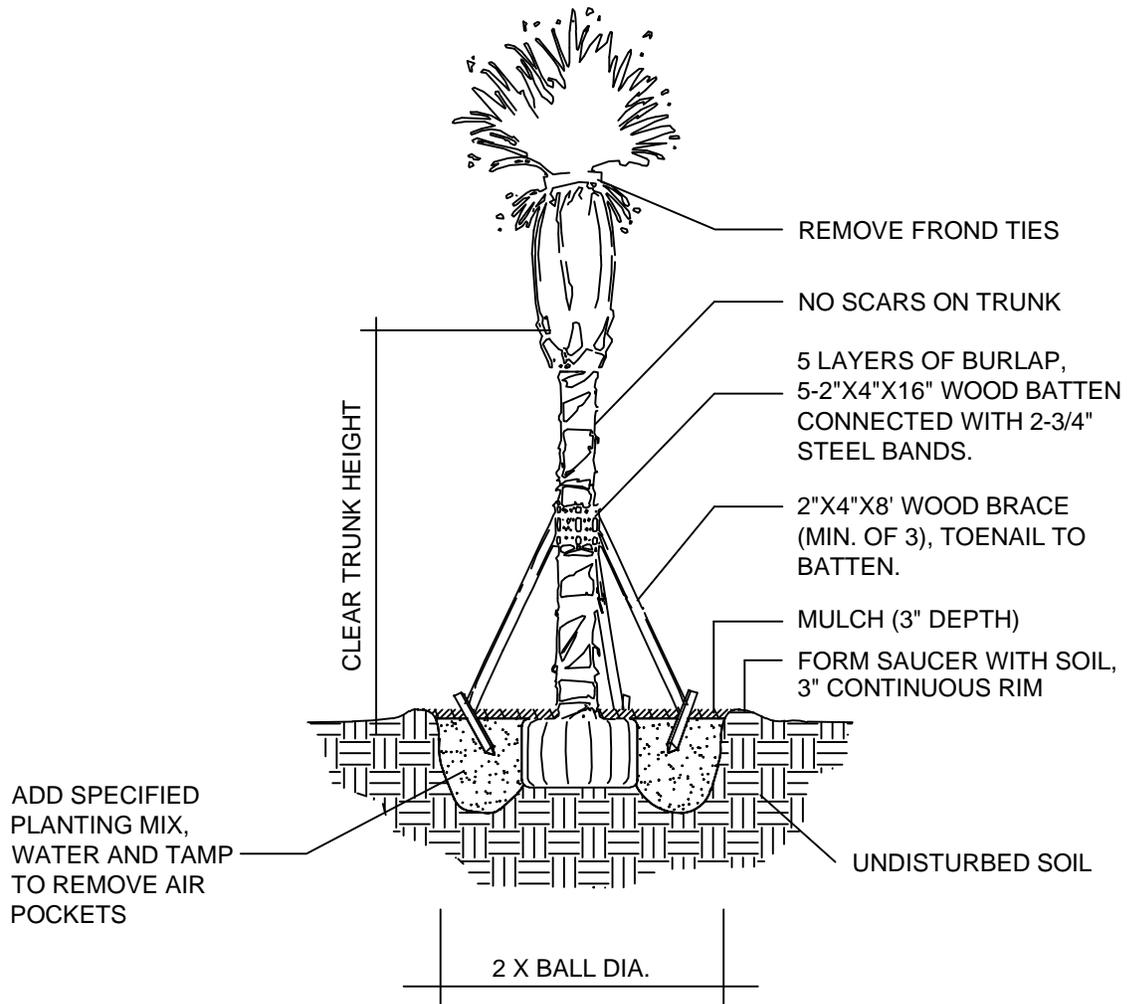
DATE: March 21, 2011	<h1 style="margin: 0;">LANDSCAPE - GENERAL NOTES</h1> <h2 style="margin: 0;">CHARLOTTE COUNTY UTILITIES</h2>	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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13. "CALL 48 HOURS BEFORE YOU DIG / IT'S THE LAW! 1-800-432-4770 / SUNSHINE STATE ONE CALL OF FLORIDA, INC."
14. It shall be the responsibility of the Contractor to call for and satisfactorily obtain Landscaping, Tree and Zoning inspections in addition to other final inspections, prior to receiving a Certificate of Completion for the lift station, reverse delivery system, or the field disinfection booster station.
15. Trees shall not be placed within ten (10) feet of underground utilities. Consult owner for placement of trees where conflicts arise.
16. Fertilize all plant material with a granular product (5-10-10) plus a complete micro nutrient package (see specifications). Application must be made in accordance with the Charlotte County Fertilization Ordinance.
17. Minimum Establishment Watering Schedule:
 

<u>Week</u>	<u>Frequency</u>
1	Daily
2-4	3 times per week
5-12	2 times per week
13-24	1 time per week
18. If necessary, obtain ROW use permit and prepare a Maintenance of Traffic Plan

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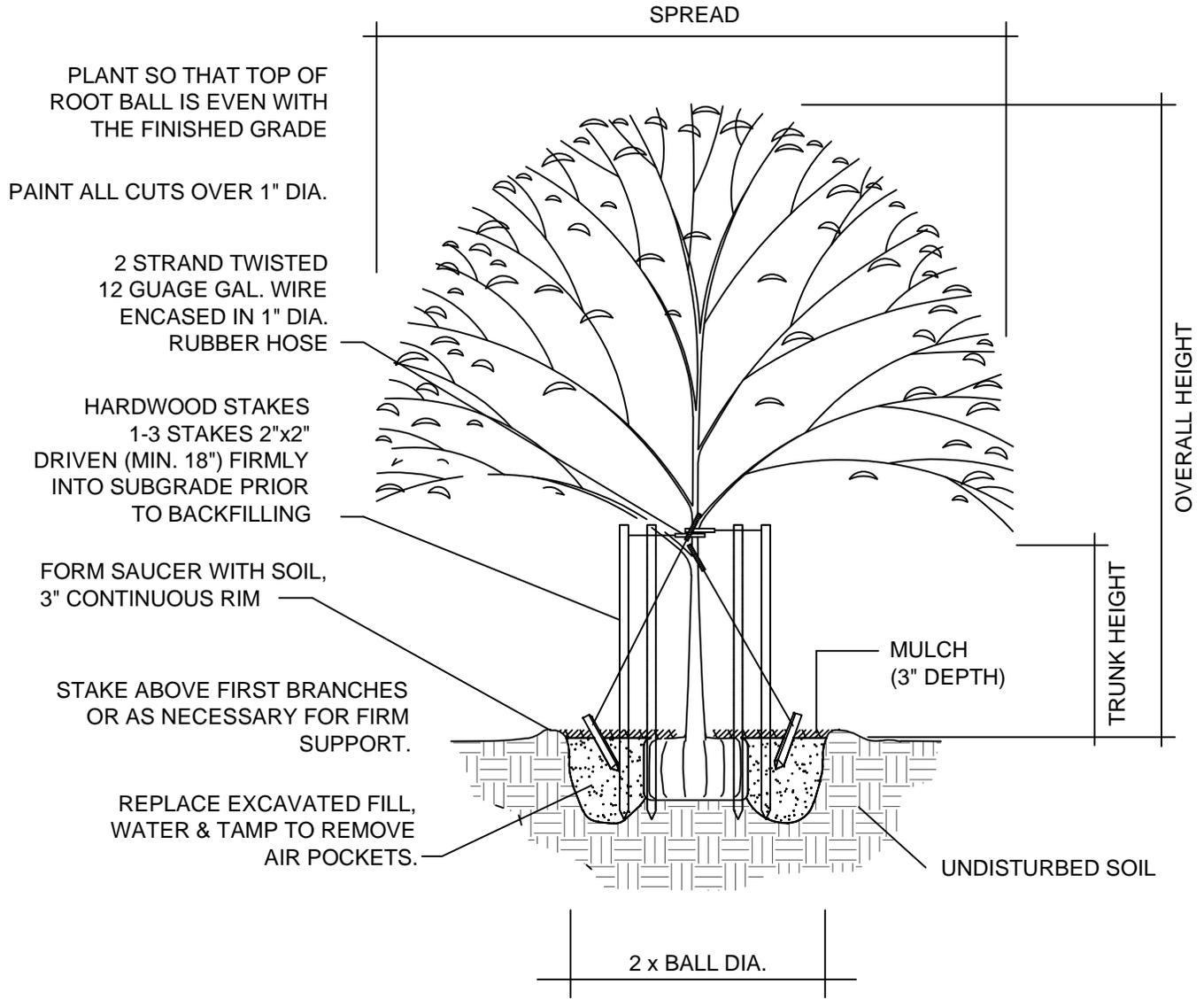
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**NOTE:**  
KEEP MULCH 3" TO 6"  
FROM ALL STEMS AND TRUNKS.

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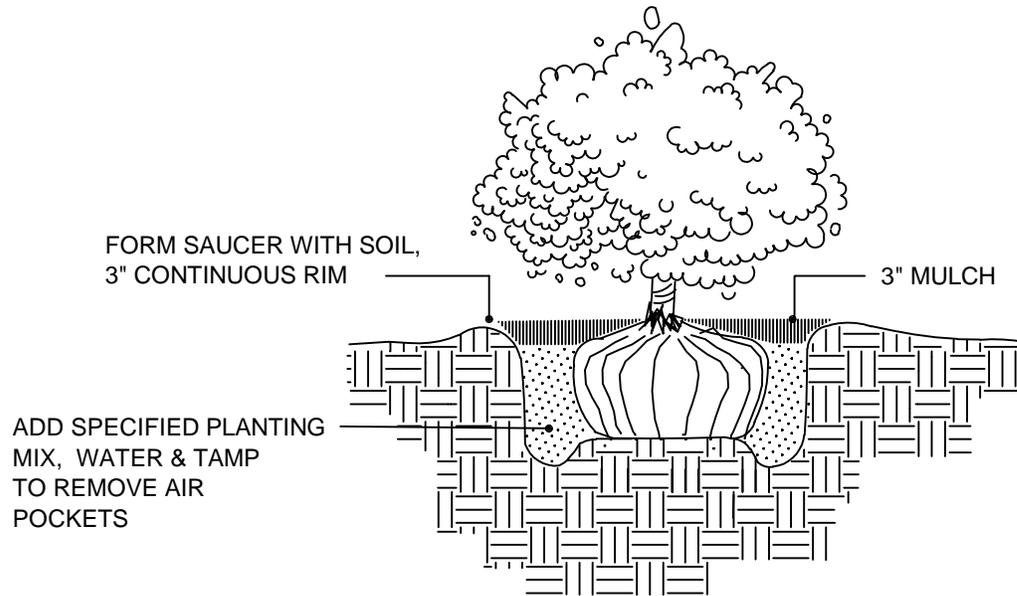
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**NOTE:**  
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